

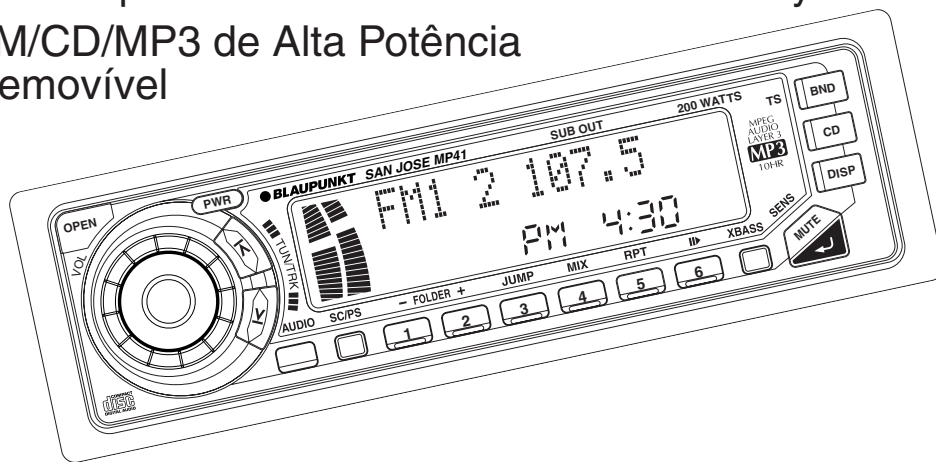
# SAN JOSE MP41

High-Power FM/AM/CD/MP3 Receiver with Detachable Face

Autoradio FM/AM à Lecteur CD/MP3 de Forte Puissance et à Face Amovible

Receptor FM/AM/Reproductor de CD/MP3 de Alta Potencia y con Panel Extraíble

Rádio FM/AM/CD/MP3 de Alta Potência  
com Face Removível



**Important Notice**  
Prior to Installation, "Demo  
Mode" should be defeated.  
See page 7.

Robert Bosch Corporation  
Sales Group —  
Blaupunkt Division  
2800 South 25th Avenue,  
Broadview, Illinois 60155

**BLAUPUNKT®**  
Bosch Group

ENGLISH

FRANÇAIS

ESPAÑOL

PORTUGUÊS

## FCC WARNING

This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with instructions, may cause harmful interference with radio communications. However, there is no guarantee that radio interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help. You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

## Features

- **MP3/WMA file playback support**
- **CD-TEXT support (SONG, ALBUM)**
- **Detachable flip down front panel**
- **Built-in power amplifier (max. output : 50W × 4ch)**
- **FM/AM PLL Synthesizer tuner**
- **30 Station preset memory**
- **Travel Store / Scan tuning**
- **X-BASS System**
- **Station / Disc name store, Station / Disc call**
- **Auxiliary input**
- **IR Remote Control RC-823**
- **CD changer control**

(IDCA09, CDCA08 & CDCA071\*)

\* CDCA071 requires adaptor # 7607 898 093 available separately.

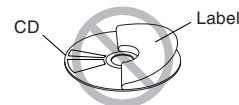
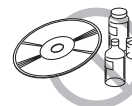
## Precautions

- Avoid installing the unit where it would be subject to high temperatures, such as in direct sunlight or a hot air stream from the heater, or where it would be subject to dust, dirt, or excessive vibration.
- Do not turn on the unit if the temperature inside the car is very high. Always cool down the unit before usage. Parking your car in direct sunlight will result in a temperature rise.
- If the unit does not turn on, check the connections first. Then check whether the fuse at the back of the unit is blown.
- Carefully read this manual before using the unit. If you encounter any problems that are not covered in this manual, please consult the dealer where you purchased the unit or the dealer nearest to you.
- This unit has been designed specifically for playback of compact discs bearing the following mark. Other discs cannot be played.



## Handling Compact Discs

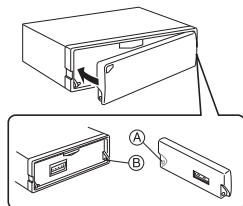
- Be careful when removing a compact disc after the playback is completed because the disc may be extremely hot.
- Do not use non-conventional discs such as heart-shaped, octagonal discs, etc. The player could be damaged.
- Do not expose compact discs to direct sunlight or any heat source.
- Check all compact discs before playing, and discard cracked, scratched or warped discs.
- Wipe dirty or damp discs outward from the centre with a soft cloth.
- Do not use any solvents such as commercially available cleaners, antistatic spray, or thinner to clean the compact discs.
- If a label is affixed to a disc, the label may prevent removal of the disc from the unit or may damage the unit.



# Handling the Front Panel

## Attaching the Front Panel

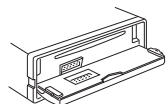
Place the right hand side of the front panel so that the parts ① of the front panel are engaged with the parts ② of the unit as shown below. Then push the left hand side of the front panel until it is securely locked.



## Front Panel Open / Close

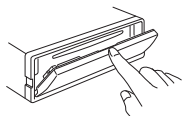
### Panel open

Press the **OPEN**.



### Panel close

Raise the front panel with your finger until it locks in place.

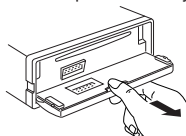


## Detaching the Front Panel

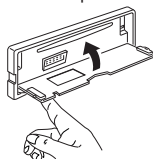
1. Press the **OPEN** firmly to open the flip down front panel.



2. Pull the front panel toward your direction to remove it.

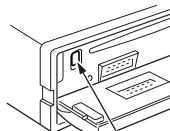


3. Close the inner cover.  
Do not leave inner cover in the down position unless the front panel is in place.



## Ejecting the CD

Press the recessed button located to the left behind the Front Panel.



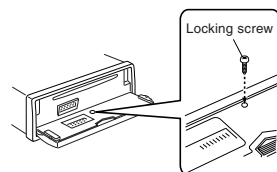
EJECT button

## Notes

- Be sure to use this unit with the front panel closed.  
The unit is automatically switched off when the front panel is left open for about 10 minutes.
- Do not handle the unit roughly when opening/closing the front panel.
- Do not put any object or use it like a tray when the front panel is open in a lying position.
- Do not press **OPEN** button when closing the front panel.
- Do not put too much force to the operation buttons or the display window as it may cause damage or deform the unit.
- Connectors on the unit and front panel are vital parts transmitting the signal. Do not touch, push or scratch them.
- Be careful not to pinch your fingers or hands when opening and closing the front panel.
- Do not press hard on the front panel when affixing it to the unit. No more than light to moderate pressure should be needed.
- Make sure there is no dust or dirt on the electrical terminals on the back of the front panel as this could cause intermittent operation or other malfunctions.

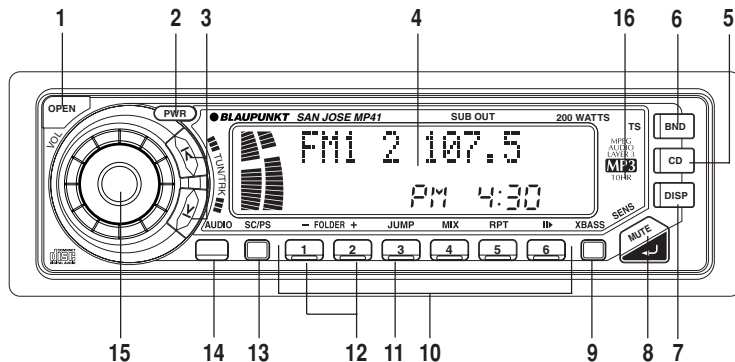
## Security/Retailer Display

Bolt the front panel with the locking screw (See page 19) in the inner cover as shown below, to protect the front panel from theft and from getting lost.



# Identification of Controls

## Front Panel



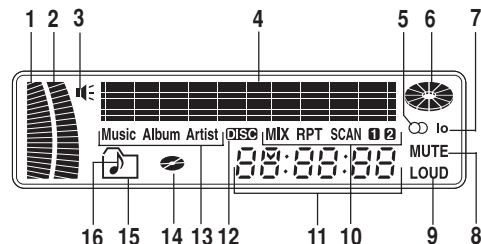
- 1 OPEN button**  
Open the flip down front panel.
- 2 PWR button**  
Turns the power of the unit on or off.
- 3 TUN/TRK button**  
Used to tune in to the desired station.
- 4 LCD Display window**
- 5 CD button**  
Select the operating source (CD, CD changer or AUX).
- 6 BND/TS button**  
Selects the AM/FM Band & Travel store.
- 7 DISP button**  
Mode selector. Clock adjustment. Display priority setting.
- 8 MUTE/SENS button**  
Muting the sound. Switches the seek sensitivity between local and distance.
- 9 XBASS button**  
Boosts the bass sound.
- 10 PRESET MEMORY button**  
During radio reception :  
① - ⑤ ; For Preset memory  
During CD mode :  
④ MIX ; For Mix play (Mix & Mix all during CDC)  
⑤ RPT ; For Repeat play  
⑥ PAUSE ; For Pause

- 11 JUMP button**  
If an ID3 Tag has been recorded on MP3 file, one touch switches the unit to ID3 Tag display. (Not supported with WMA.)
- 12 FOLDER SELECT button**  
Select the desired CD in CDC (CD changer) mode.  
Select the desired FOLDER in MP3/WMA play mode.
- 13 SC/PS button**  
Scan tuning. Preset scan tuning. Scan play in CD/CDC mode.
- 14 AUDIO button**  
Audio control selector; Bass, Treble, Loudness, Balance & Fader.
- 15 Dial**  
Adjusts the volume level/bass/treble/balance/fader.  
Used to store the station names, and selects alpha-numeric characters.
- 16 Infrared Sensor** (behind acrylic facia)  
Permits wireless remote control of AM/FM/CD and CD changer with RC-823 credit card style remote.

## Remote Control (Included)

You can operate your receivers basic AM, FM, CD, MP3 & CDC features via an IR Remote Control, model RC-823.

## LCD Display



- 1 L-ch Level Meter**
- 2 R-ch Level Meter**
- 3 XBASS indicator**
- 4 Main display section**
- 5 STEREO signal indicator**
- 6 Signal-strength indicator**
- 7 Lo(Local) indicator**
- 8 MUTE indicator**
- 9 LOUD indicator**
- 10 MIX/RPT/SCAN Mode indicator**
- 11 Clock indicator**
- 12 CD Changer indicator**
- 13 ID-3 Tag indicator**
- 14 DISC IN indicator**
- 15 FOLDER indicator**  
Flashes when the folder name is displayed.
- 16 FILE indicator**  
Flashes when the file name is displayed.

## General Operations

### Turning the power On/Off

Press the **[PWR]** to turn on or off the unit.

#### Tip

When you turn on the unit, **"BLAUPUNKT MP3 - I WANT MY MP3!"** will be displayed before actual power on.

When you turn off the unit, **"BYE - BYE"** will be displayed before actual power off.

You can edit these message. (See **"Turn on/off message edit"**)

### Volume Level Control and Memory

Rotate the dial to adjust the volume.

It is also possible to set the maximum volume when the power is switched on by following the procedure explained below.

1. Turn the dial until it is set at the required volume.



Volume down

Volume up

2. Press the **[PWR]** for two or more seconds. The power will be switched off and the current volume level recorded.

#### Muting the sound

Press **[MUTE / SENS]**.

"MUTE" appears on the display window.

To restore the previous volume level, press **[MUTE / SENS]** again.

### Setting the Clock

The clock uses a 12-hour display system. (factory set)

1. Turn the ignition key to the ON position.
2. Press the **[PWR]** to turn on the unit.
3. Repeatedly press the **[DISP]** to display "CLOCK 12".
4. Rotate the dial within 5 seconds to select the 12 or 24-hour time mode. Each time you rotate the dial, the mode changes or toggles as follows :



CLOCK 24

CLOCK 12

5. Repeatedly press the **[DISP]** to display "CLOCK ADJUST".

A. Press the **[MUTE / SENS]** within 5 seconds to flash the hour digit.

B. Rotate the dial to set the hour digit.

C. Press the **[MUTE / SENS]** to flash the minute digit.

D. Rotate the dial to set the minute digit.

6. Press the **[DISP]** momentarily to complete the Clock setting mode.

#### Note

If you make no button input or dial operation in 20 seconds, the Clock setting mode will turn off automatically.

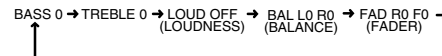
#### Ignition-off Clock Recall

The display will illuminate showing the time and then automatically shut off after 5 seconds.

Press the **[DISP]** while the ignition switch is in the "OFF" position.

### Adjusting the Sound Characteristics

1. Press the **[AUDIO]** to select the desired adjustment mode as follows;



2. Rotate the dial to adjust the selected item. Adjust within 3 seconds after selecting the item. After 3 seconds, the dial reverts to volume control. Use the following tables as a guide for adjusting the settings in each mode.



Adjustment Range


BASS	BASS -5	BASS +5
TREBLE	TREBLE -5	TREBLE +5
LOUDNESS	LOUD OFF	LOUD ON
BALANCE	L9 R0 (Full left)	L0 R9 (Full right)
FADER	R9 F0 (Full rear)	R0 F9 (Full front)

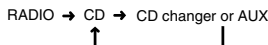
#### Tip

Settings for BASS, TREBLE, LOUDNESS and XBASS can be made to each of the following modes independently:

FM, AM, CD, MP3, CD Changer and AUX.


### Switching the Source (Selecting auxiliary input)

You can connect the auxiliary equipment (Portable cassette player, etc) to this radio via optional AUX-IN cable. (See page 20) Each time the  is pressed, the operation source will change over as shown below:



Press the **(BND/TS)** to return to radio mode.

### Note

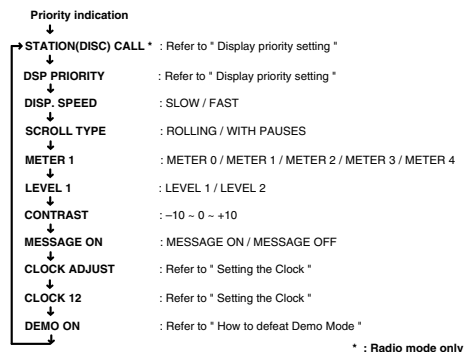
If the  button is pressed when no CD has been loaded into the unit, The CD mode will skip to the CD changer mode or AUX mode.

*Also, if the CD changer is not connected, the system will move across to the AUX mode regardless of whether auxiliary equipment is connected or not ("AUX" will be displayed.)*

*It is not possible to switch to the AUX mode when the CD changer is connected.*

## Mode Selector

Each time the **DISP** is pressed, the display window will change over as shown below:



## Notes

- "STATION CALL" and "DSP priority" are not displayed in AUX mode.
- If you make no button input or dial operation in few seconds, the display returns priority indication.

### Display priority setting

### Example

**To set Station Name to the Display Priority.**

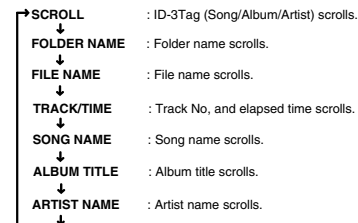
1. Repeatedly press the **[DISP]** to display "DSP PRIORITY" appears in the display window.
2. Rotate the dial to select "STATION NAME" or "FREQUENCY".
3. Hold the **[DISP]** pressed for more than 2 seconds to confirm/enter your selection.  
"NO NAME" or a previously assigned station name (See page 10) flashes once to indicate that Station Name is selected for the Display Priority.  
After 5 seconds, the display mode will automatically return to the Display Priority showing either "NO NAME" or the station name.

**Tip**

Frequency Display is initially set to the Display Priority, and Station Name ("NO NAME") is set to the "Temporary" indicator.

Display Priority can be set for the following items:

- **Radio mode**  
Frequency ↔ Station name
- **CDC (CD changer) mode**  
Disc name ↔ Disc No/Track No/Elapsed track time
- **CD or other media**



The items supported for display priority for each media are shown in the table below.

When an item that is not supported is selected, "NO NAME" is displayed, following which TRACK/TIME is displayed.

Media DISP Priority	CD	CD TEXT	MP3	WMA
ID3-Tag Scroll		X <sub>1</sub>	X <sub>2</sub>	
FOLDER NAME			X	X
FILE NAME			X	X
TRACK/TIME	X	X	X	X
ID3-Tag MUSIC		X	X	
ID3-Tag ALBUM		X	X	
ID3-Tag ARTIST			X	

### Notes

\*1: MUSIC → ALBUM

\*2: MUSIC → ALBUM → ARTIST

## Display Speed selection

The scroll speed of the display indication can be switched.

You can select :

- SLOW : Slow.
- FAST : Fast.

1. Repeatedly press the **(DISP)** to display the "DISP. SPEED" on the display window.
2. Rotate the dial to select the desired display speed.



## Display Scroll type selection

The scroll type of the display indication can be switched.

You can select :

- ROLLING : Scrolls across the display.
- WITH PAUSES : Scrolls across the display with pause.

1. Repeatedly press the **(DISP)** to display the "SCROLL TYPE" on the display window.
2. Rotate the dial to select the desired scroll type.



## Level Meter selection

The meter displays can be selected from four types.

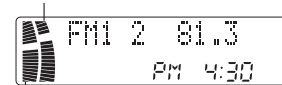
You can select :

- METER 1 : The level meter goes upward.
- METER 2 : Only the very top segment lights.
- METER 3 : The remaining segments light. (opposite of METER 2)
- METER 4 : The level meter goes up and down dividing from the center segment.
- METER 0 : No meter is indicated.

1. Repeatedly press the **(DISP)** to display the "METER 1" on the display window.
2. Rotate the dial in a clockwise direction to select the desired meter indication.

METER 1 → METER 2 → METER 3 → METER 4 → METER 0

### R-ch Level meter



### L-ch Level meter

## Level Meter Sensitivity selection

The sensitivity of the level meter display can be switched.

You can select :

- LEVEL 1 : Normal sensitivity.
- LEVEL 2 : High sensitivity.

1. Repeatedly press the **(DISP)** to display the "LEVEL 1" on the display window.
2. Rotate the dial to select the desired meter sensitivity.



## Display Contrast selection

The contrast of the display can be adjusted.

You can adjust :

- - 10 ~ 0 ~ +10

1. Repeatedly press the **DISP** to display the "CONTRAST" on the display window.
2. Rotate the dial to select the desired display contrast.



## Message ON/OFF selection

Message display following POWER ON/OFF can be switched.

You can adjust :

- MESSAGE ON : A message is displayed following power on/off.
- MESSAGE OFF : No message is displayed.

1. Repeatedly press the **DISP** to display the "MESSAGE ON" on the display window.
2. Rotate the dial to select whether or not to display a message following power on/off.



## How to defeat Demo Mode

After installation we recommend defeating the Demo Mode. When power is turned off, the unit switches to demonstration mode.

The demonstration starts about 10 seconds after power off. The demonstration of each function is repeatedly shown on the display screen.

You can adjust :

- DEMO ON : The demonstration is displayed after power off.
- DEMO OFF : A demonstration is not displayed after power off.

1. Repeatedly press the **DISP** to display the "DEMO ON".
2. Rotate the dial to select whether or not the demonstration should be displayed when power is off.



## Enhancing the bass sound

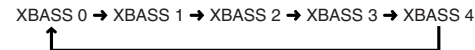
For extended bass centered @ 72Hz, Blaupunkt's XBASS function can be set for either each band and CD/MP3/CDC/AUX mode.

You can select :

- XBASS 1 : Enhanced BASS level (low).
- XBASS 2 : Enhanced BASS level (Middle).
- XBASS 3 : Enhanced BASS level (High).
- XBASS 4 : Enhanced BASS level (Very high).
- XBASS 0 : No BASS enhanced.

Press the **XBASS** repeatedly to select the bass sound.

"**B**" appears on the display window. (Except for XBASS 0) Each time you press **XBASS**, the current mode appears on the display window and the mode change as follows:



### Note

*Reduce XBASS level if your combination of speakers and add-on amplifiers sound distorted at the preferred sound level.*



## Turn on/off message edit

You can edit the turn on/off message and store it in memory. Following four messages can be edit with 12 characters each. When you turn on the unit, "MESSAGE 1" will be displayed then "MESSAGE 2" will momentarily displayed before actual power on.

When you turn off the unit, "MESSAGE 3" will be displayed then "MESSAGE 4" will momentarily displayed before actual power off.

### Turn-on message

- MESSAGE 1 / MESSAGE 2

### Turn-off message

- MESSAGE 3 / MESSAGE 4

1. Repeatedly press the **[DISP]** to display the "MESSAGE ON" on the display window.
2. Press the **[MUTE / SENS]** to flash the "MESSAGE 1".
3. Rotate the dial to select the desired message you want to edit.  
MESSAGE 1 → MESSAGE 2 → MESSAGE 3 → MESSAGE 4

4. Press the **[MUTE / SENS]**, then enter the character.
  - A. Rotate the dial in a clockwise direction to select the desired characters.  
(A~Z, a~z, 0~9, ( ) \* +, -, . / ! " # \$ % & ' : ; < = > ? @ [ \ ] ^ \_ ` { | } ~)
  - B. Press the **[TUN/TRK ↗]** to move the flashing cursor to the next position. If you press **[TUN/TRK ↘]**, the flashing cursor moves to the left.
  - C. Repeat steps A. and B. to complete entering the entire message 12 characters max.

### Tips

- To erase/correct a message, press the **[DISP]** for more than 2 seconds to clear the character and re-enter.
- When entering a name, pressing the following buttons affects the display of characters as follows:
  - ① : Changes to inputting letters. (Starts with "A".)  
If pressed while letters are already selected, switches between upper and lower case letters.
  - ② : Changes to inputting numbers. (Starts with "0".)
  - ③ : Changes to inputting symbols. (Starts with "(".)
  - ④ : Enters a space (blank).

5. Press the **[MUTE / SENS]** to store the message.  
The new message flashes.
6. To return to the normal radio reception, Press **[DISP]**.

### Notes

- If you make no button input or dial operation in 20 seconds, the message edit mode will turn off automatically.
- Make sure the "MESSAGE" will be "ON".

### Erasing the turn on/off message

You can erase the turn on/off message if so desired.

1. Repeatedly press the **[DISP]** to display the "MESSAGE ON" on the display window.
2. Press the **[MUTE / SENS]** to flash the message you edit.
3. Rotate the dial to select the desired message you want to erase.
4. Press the **[DISP]** for more than 2 seconds.  
Repeat steps 1. and 3. if you want to erase other message.
5. To return to the normal radio reception, Press **[DISP]**.

# Radio Reception

## Seek Tuning

1. Press the **(BND/TS)** to select the desired AM or FM band.  
FM1 → FM2 → FMT → AM → AMT  
(FMT & AMT are Travel Store bands.)
2. Press the **(TUN/TRK)** to tune in stations. Tuning automatically stops at a broadcasting frequency.  
When tuned in to FM stereo broadcasting stations, the "Ⓢ" stereo signal indicator will appear on the display window.


## Manual Tuning

1. Press the **(BND/TS)** to select the desired AM or FM band.
2. Press the **(TUN/TRK)** or **(TUN/TRK)** for more than 0.5 second to activate the manual tuning mode. Press again to tune in to stations.  
"MAN" will appear on the display window.  
After 4 seconds of completing Manual Tuning, the tuning control will revert to the Seek Tuning mode.

## Scan Tuning

1. Press the **(BND/TS)** to select the desired AM or FM band.
2. Hold the **(SCPS)** pressed for less than 2 seconds.  
The unit will scan the selected band for stations.  
"SCAN" indicator will appear on the display window. The unit will stop at each station for 8 seconds, before continuing to the next station.  
Press the **(SCPS)** again to stop Scan Tuning and remain this on the selected frequency.

### Tip

While tuning, the pie-shaped signal-strength meter  on the display is lit differently depending on the strength of the signal. While scanning bands, the pie-shaped signal-strength meter spins. While playing CD's, this display also spins.

## Preset Scan Tuning

1. Press the **(BND/TS)** to select the desired AM or FM band.
2. Hold the **(SCPS)** pressed for more than 2 seconds.  
"SCAN" indicator will appear on the display window.  
The unit will scan preset memory for the 12 stations from the AM/AMT band or the 18 stations from the FM1/FM2/FMT bands. The unit will stop at each preset station for 8 seconds, before continuing to the next preset station.  
Press the **(SCPS)** again to stop Preset Scan Tuning and remain this on the selected frequency.

## Memorizing Stations Automatically (Travel Store)

1. Press the **(BND/TS)** to select the desired AM or FM band.
2. Hold the **(BND/TS)** pressed for longer than 2 seconds.  
Up to 6 stations with strong signals will be automatically stored in preset memory for the selected band.  
If the radio is in FM1 or FM2, it switches to FMT. If the radio is in AM, it switches to AMT.

### Note

This function is available for FMT and AMT.

## Memorizing Only the Desired Stations

You can store up to 6 stations on each band (18 for FM1, FM2 and FMT, 12 for AM and AMT) in the order of your choice.

1. Press the **(BND/TS)** to select the desired band.
2. Press the **(TUN/TRK)** to tune in stations.
3. Press and hold the desired preset memory button **(1)** - **(6)** for about 2 seconds until the frequency indicator flashes twice.  
The number of the pressed preset memory button appears on the display window.

### Note

If when you store another station on the same preset number button, the previously stored station is replaced with new one.

## Receiving the Memorized Stations

1. Press the **(BND/TS)** to select the desired AM or FM band.
2. Press the **(1)** - **(6)** momentarily.

## Local/Distant (LO/DX) Selection

This feature is used to select the signal strength at which the radio will stop during Seek Tuning.

Press the **(MUTE/SENS)** for more than 2 seconds to select the Local setting and only strong (local) stations will be received. The "lo" indicator appears on the display window.  
Pressing for more than 2 seconds again will select the Distant setting and the radio will stop at a wider range of signals, including weaker more distant stations. The "lo" indicator will go out on the display window. DX is the suggested default setting.

## Storing the station names

You can assign a name to each radio station and store it in memory. As much as 30 station names can be stored composed with 12 characters each.

### Storing the station names

1. Tune in a station whose name you want to store.
2. Press the **[DISP]** for more than 2 seconds.  
The "NAME EDIT" will light then the " \_ " on the display window. The first " \_ " flashes.
3. Enter the characters.
  - A. Rotate the dial in a clockwise direction to select the desired characters.  
(A~Z, a~z, 0~9, ( ) \* + , - . / ! " # \$ % & ' : ; < = > ? @ [ \ ] ^ \_ ` { | } ~ )
  - B. Press the **[TUN/TRK ^]** to move the flashing cursor to the next position. If you press **[TUN/TRK v]**, the flashing cursor moves to the left.
  - C. Repeat steps A. and B. to complete entering the entire name 12 characters max.

#### Tips

- To erase/correct a name, press the **[DISP]** for more than 2 seconds to clear the character and re-enter.
- When entering a name, pressing the following buttons affects the display of characters as follows:
  - ① : Changes to inputting letters. (Starts with "A".)  
If pressed while letters are already selected, switches between upper and lower case letters.
  - ② : Changes to inputting numbers. (Starts with "0".)
  - ③ : Changes to inputting symbols. (Starts with "(".)
  - ④ : Enters a space (blank).

4. Press the **[MUTE / SENS]** to store the station name.  
The station name flashes.
5. To return to the normal radio reception, Press **[DISP]**.

#### Note

If you try to store more than 30 station names, "※※FULL※※" will be displayed.

## Erasing the station names

1. Tune in any station and press the **[DISP]** for more than 2 seconds.
2. Press the **[MUTE / SENS]**.  
The station name or " \_ " flashing.
3. Rotate the dial to select the name of the station that you want to erase. To erase all the names of the stations, display "※ALL DELETE※".
4. Press the **[DISP]** for more than 2 seconds.  
Repeat steps 3. and 4. if you want to erase other names.
5. To return to the normal radio reception, Press **[DISP]**.

## Direct Access to Memorized Stations via Station call

You can search for the memorized AM & FM station names in the memory.

1. Press the **[DISP]** to display the "STATION CALL" on the display window.
2. Rotate the large dial to select the desired station name.
3. Press the **[MUTE / SENS]** to tune in the desired station.

# CD Operations

## Playing the CD player

### Loading Discs

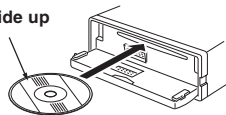
1. Press the **OPEN** and insert the disc.
2. Close the front panel. "LOADING" and "FILE CHECK" will appear in the display window.  
Playback begins automatically.

### Note

*Make sure that the front panel is closed when playback begins.*

**Playback with the front panel open causes the unit to turn off automatically in about 10 minutes.**



Labeled side up



### ! NEVER Insert a 3-inch CDs.

*This unit is designed for playback of standard 5-inch CD's only. Do not attempt to use 3-inch CD singles in this unit, either with or without an adaptor, as damage to the player and/or disc may occur.*

### Tips

- When a CD is loaded, the  on the display remains lit.
- During playback of a CD, the pie-shaped signal-strength meter  spins.

### Listening to a disc that is already loaded

Press the **CD** to select the CD mode.  
Playback begins automatically.

### Pausing Playback

Press the **PAUSE**.  
To resume playback, press the **PLAY** again.

### Stopping Playback

Press the **BND/TS** to select the radio reception (FM1, FM2, FMT or AM, AMT).

### Ejecting Discs

Press the **EJECT** to eject the disc located behind flip-down front panel.

### Notes

- The unit will turn on automatically when a CD is inserted if the ignition switch is "ON".
- When the disc is ejected from the CD slot, remove it within 10 seconds; otherwise, the disc will be reloaded automatically.

### Track Search

Press the **TUN/TRK** during CD mode. Track numbers appear in the display window.

**UP** : Playback starts from the beginning of the next track.

**DOWN** : Playback starts from the beginning of the current track.  
Press again to play the previous track.

### Cue / Review

Press and hold the **TUN/TRK**. Release when you have found the desired point.

**UP** : To search forward.

**DOWN** : To search backward.

### Scan Play

Press the **SCIPS** during CD mode.  
The "SCAN 1" indicator appears in the display window. This will play the first 10 seconds of all the tracks on the disc.  
Press the **SCIPS** again to cancel this feature.

### Repeat Play

Press the **RPT** during CD mode.  
The "RPT 1" indicator appears in the display window and the current track is played repeatedly.  
Press the **RPT** again to cancel this feature.

### Mix Play

Press the **4/MIX** during CD mode.  
The "MIX 1" indicator appears in the display window.  
All the tracks on the current disc are played in random order.  
Press the **4/MIX** again to cancel this feature.

### Note

*If the Mix, Repeat or Scan buttons are pressed for 2 seconds or longer while playing a music CD, the unit will enter the respective mode2. These modes can be used for playing MP3 discs which contain a number of folders. (See page 14.) Since a music CD is treated as a folder, there is almost no difference in the operation.*

# CD Changer Controls

## Playing the CD Changer

This product can control a CD changer. Please check with your nearest car stereo specialist for recommendations of the models that will work with this radio (See page 1).

Press the **CD** to switch the CD changer mode. Disc No, Track No, and Track time appear on the display window and playback begins automatically. Press again to change back to built-in CD operation.

### Disc Select

Press the Disc select buttons to select the desired disc for play.

**FOLDER +** : To advance to a higher number disc.

**FOLDER -** : To return to a lower number disc.

### Track Search

Press the **TUN/TRK ^**.

Track numbers appear in the display window.

**^** : Playback starts from the beginning of the next track.

**v** : Playback starts from the beginning of the current track.  
Press again to play the previous track.

### Cue / Review

Press and hold the **TUN/TRK ^**. Release when you have found the desired point.

**^** : To search forward.

**v** : To search backward.

## Track / Disc Scan Play

### Track Scan

Press the **SCIPS**.

The "SCAN ON" indicator appears in the display window. This will play the first 10 seconds of all the tracks on all the discs. Press the **SCIPS** again to cancel this feature.

### Disc Scan

Press the **SCIPS** for more than 2 seconds.

The "SCANDISC ON" indicator appears in the display window. This will play the first 10 seconds of the first track on each disc. Press the **SCIPS** again to cancel this feature.

## Track / Disc Repeat Play

### Track Repeat

Press the **S/RPT**.

The "RPT ON" indicator appears in the display window and the current track is played repeatedly.

Press the **S/RPT** again to cancel this feature.

### Disc Repeat

Press the **S/RPT** for more than 2 seconds.

The "RPTDISC ON" indicator appears in the display window and the current disc will be continually repeated.

Press the **S/RPT** again to cancel this feature.

## Track / Disc Mix Play

### Track Mix

Press the **4/MIX**.

The "MIX ON" indicator appears in the display window.

All the tracks on the current disc are played in random order.

Press the **4/MIX** again to cancel this feature.

### Disc Mix

Press the **4/MIX** for more than 2 seconds.

The "MIXDISC ON" indicator appears in the display window.

Both discs and tracks will be played in random order.

Press the **4/MIX** again to cancel this feature.

### Tip

*During Disc scan, Disc Repeat or Disc Mix, the **DISC** will be lit on the display.*

## Storing the CDC disc names

You can label each disc with a personalized name. As many as 99 disc names can be stored, composed with 7 characters each.

### Storing the CDC disc names

1. Play the CD and press the **DISP** for more than 2 seconds. The "NAME EDIT" will light then the " \_ \_ \_ \_ \_ " on the display window. The first " \_ " flashes.
2. Enter the characters.
  - A. Rotate the dial in a clockwise direction to select the desired characters.  
( A-Z 0-9 ( ) \* + , - . / )
  - B. Press the **TUN/TRK ^** to move the flashing cursor to the next position. If you press **TUN/TRK v**, the flashing cursor moves to the left.
  - C. Repeat steps A. and B. to complete entering the entire name 7 characters max.

### Tips

- To erase/correct a name, press the **DISP** for more than 2 seconds to clear the character and re-enter.
- When entering a name, pressing the following buttons affects the display of characters as follows:
  - 1 : Changes to inputting letters. (Starts with "A".)  
If pressed while letters are already selected, switches between upper and lower case letters.
  - 2 : Changes to inputting numbers. (Starts with "0".)
  - 3 : Changes to inputting symbols. (Starts with "(".)
  - 6 : Enters a space (blank).

3. Press the **MUTE / SENS** to store the disc name.  
The disc name flashes.
4. To return to the normal CD playback mode, Press **DISP**.

## Erasing the CDC disc names

1. Press the **DISP** for more than 2 seconds during CD changer mode.
2. Press the **MUTE / SENS**.  
The disc name or " \_ \_ \_ \_ \_ " is now flashing.
3. Rotate the dial to select the name that you want to erase.  
To erase all the names, display " \*ALL DELETE\* ".
4. Press the **DISP** for more than 2 seconds.  
Repeat steps 3. and 4. if you want to erase other names.
5. To return to the normal CD playback mode, Press **DISP**.

## Direct Access to Memorized Disc Names via Disc call

You can search for the memorized disc names in the memory.

1. Press the **DISP** to display the "DISC CALL" on the display window.
2. Rotate the large dial to select the desired disc name.
3. Press the **MUTE / SENS** to start playback for the desired station.

## IDC A09 Changer:

*The IDC A09 is a 5-disc CD Changer. When using the Folder + & – keys, it is possible to mistakenly ask the IDC A09 for a CD Disc higher than the number 5 (Five).*

*When this command is manually done in error, the San jose's Display will read disc numbers above 5, but the unit will then only play but a few seconds of the next disc, which would be Disc 1, whereas the Display is reading disc number 6 (Six) which does not exist. Choosing a vacant / empty IDC A09 disc slot will result in a "No Magazine" or a double dashes (– –) message in the LCD.*

*Do one of the following remedies:*

*Manually select the desired disc at the Changer's controls,  
Or allow the IDC A09 to automatically cycle to the next disk after the completion of Disc #5,  
Or Press Folder + or – until Disc 1 (One) or the desired disc is displayed in the receivers LCD.*

## MP3 / WMA operation

You can play MP3 and WMA files written on CD-ROMs, CD-Rs, or CD-RWs by following the procedures below. In this section, "track" and "album" mean "MP3 or WMA file" and "folder" in PC terminology, respectively.

### MP3 / WMA play

#### Loading Discs

1. Press the **OPEN** and insert a CD-ROM, CD-R, or CD-RW with the labeled side upward.
2. Close the front panel.  
During scanning of the disc, "LOADING" and "FILE CHECK" appear in the display window.  
Playback begins automatically.  
CD-R/RW with very complex folder trees could take in the range of 20-seconds to load.

#### Listening to a disc that is already loaded

Press the **CD** to select the CD mode.  
Playback begins automatically.

#### Pausing Playback

Press the **PAUSE**.  
To resume playback, press the **PAUSE** again.

#### Stopping Playback

Press the **BAND/TS** to select the radio reception (FM 1, FM 2, FT or AM, AT).

#### Ejecting Discs

Press the **EJECT** to eject the disc located behind the flip-down front panel.

#### Notes

- The unit will turn on automatically when a CD is inserted if the ignition switch is "ON".
- When the disc is ejected from the CD slot, remove it within 10 seconds; otherwise, the disc will be reloaded automatically.
- ID3 Tags are not supported for WMA files.

#### Track Search

Press the **TUN/TRK** during CD mode. Track numbers appear in the display window.

- ^** : Playback starts from the beginning of the next track.
- v** : Playback starts from the beginning of the current track.  
Press again to play the previous track.

#### Album(Folder) Search

Press the **FOLDER** or **FOLDER** during CD mode. Folder indicator " " flashes in the display window.

- FOLDER** : Playback starts from the beginning of the next folder.
- FOLDER** : Playback starts from the beginning of the previous folder.

#### Cue / Review

Press and hold the **TUN/TRK**. Release when you have found the desired point.

- ^** : To search forward.
- v** : To search backward.

#### Scan / Folder Scan Play

##### Scan Play (Mode1)

Press the **SCPS** during CD mode.  
The "SCAN 1 ON" appears in the display window. This will play the first 10 seconds of all the tracks on the disc.  
Press the **SCPS** again to cancel this feature.

##### Folder Scan Play (Mode2)

Press the **SCPS** for more than 2 seconds during CD mode.  
The "SCAN 2 ON" appears in the display window. This will play the first 10 seconds of first tracks in each folder.  
Press the **SCPS** again to cancel this feature.

#### Repeat / Folder Repeat Play

##### Repeat Play (Mode1)

Press the **SRPT** during CD mode.  
The "RPT 1 ON" appears in the display window and the current track is played repeatedly.  
Press the **SRPT** again to cancel this feature.

##### Folder Repeat Play (Mode2)

Press the **SRPT** for more than 2 seconds during CD mode.  
The "RPT 2 ON" appears in the display window and the current folder is played repeatedly.  
Press the **SRPT** again to cancel this feature.

#### Mix Play / Folder Mix

##### Mix Play (Mode1)

Press the **4MIX** during CD mode.  
The "MIX 1 ON" appears in the display window.  
All the tracks on the current folder are played in random order. Press the **4MIX** again to cancel this feature.

##### Folder Mix Play (Mode2)

Press the **4MIX** for more than 2 seconds during CD mode.  
The "MIX 2 ON" appears in the display window.  
All the tracks on the current disc are played in random order. Press the **4MIX** again to cancel this feature.

#### ID3 Tag Jump

When a file containing an ID3 Tag is played, pressing **3JUMP** immediately switches the unit to ID3 Tag scroll display.  
When the scroll display finishes, the original display is restored.  
When pressed **3JUMP** while scroll display has priority, the original display is restored after displaying "TRACK/TIME" for five seconds.

#### Tip

When playing a file that does not contain an ID3 Tag or when playing a WMA file, pressing **3JUMP** causes "NO NAME" to be displayed.

## MP3 / WMA Overview

This unit can play back files recorded in MP3 or WMA format on CD-ROM, CD-R (recordable) or CD-RW (rewritable) discs. There are some limitations on the files and media that can be used, so before recording files on a disc please carefully read the following information.

### ISO9660 Format

The unit can play back data recorded in ISO9660 format. ISO9660 is an international standard for representative CD-ROM file formats determined by ISO (International Standard Organization).

The media formats that can be used by the unit include Level 1, Level 2 and the extension format known as Joliet.

### What are MP3 and WMA?

- An MP3 file stores audio data compressed using the "MPEG 1 / 2 audio layer-3" file format. We call files that have the ".mp3" extension "MP3 files". Likewise for WMA files. WMA is an abbreviation for Windows Media Audio. WMA files have the extension ".wma" and are compatible with MP3 files.
- The unit cannot read files that have a file extension different from ".mp3" or ".wma".
- The unit cannot read files without an extension even if the files are MP3 or WMA files.  
Furthermore even if a file has an ".mp3" or ".wma" extension, the unit cannot read the file if it is not recorded with the MP3 or WMA data format.

### Playback Limitations

- The number of tracks and number of albums (folder) that can be played back from a disc are as follows.  
Tracks : About 250 depending on file contents.  
Albums(folder) : A maximum of 250 depending on the number of tracks.  
The unit also recognizes up to eight album(folder) levels.
- The unit can playback MP3 files with compression bit rates from 32kbps~320kbps. However for the best balance of file space and sound quality we recommend 128kbps. When files compressed at less than 128kbps are played back, the sound may have breaks in it.

Sampling rates are supported as follows.

MPEG 1	48k	44.1k	32k
MPEG 2	24k	22.05k	16k
MPEG 2.5	12k	11.03k	8k

In the case of WMA files, play back is possible only for files encoded with a compression bit rate of at least 64kbps and a sampling rate of 44.1 kHz.

- Please note that the unit cannot play files encoded using the WMA copyright protection function.
- When playing WMA files, song, album and artist tags cannot be displayed.
- The unit allows the playback of CD-R and CD-RW discs containing a mixture of music CD data (CD-DA), MP3 and WMA files. However playback of both types of data is possible only for Mixed Mode CDs/CD Extra created using Disc at Once Method. (See below.)
- The unit also supports files compressed using VBR (variable bit rate).
- The unit does not always play back MP3 and WMA files in the order in which they were recorded.
- When many folders are recorded on a disc, the time required to fetch information from the disc becomes longer.
- We recommend that multi-session discs be limited to 10 sessions.

### The packet write method is not supported.

The following three methods are used to record data (files) on a disc. As the unit does not support the "Packet Write" method please be aware of this.

The unit supports discs recorded with the "Disc at Once" and "Track at Once" methods.

#### Disc at Once Method

With this method, all the data to be written is prepared in advance and then recorded on the disc in one go. Additional writing of data is not possible.

#### Track at Once Method

With this method, data is written in file (track) units. Additional writing of data is possible.

### Packet Write Method

With this method, tracks are sub-divided into packets depending on availability of space on the disc. Additional writing of data is possible.

### Display Information Limitations

- The unit can display folder and file names, ID3 Tags of length up to 64 characters including the extension. However, certain special symbols may not display correctly.
- During playback of MP3 and WMA files, there may be occasions when the elapsed playback time is not correctly displayed.

### Important Points

- Please take care not to append the extensions for MP3 and WMA files onto files of any other type. When a disc containing such files is played, the files will be incorrectly recognized and played back. This will result in extremely loud noise that may damage the speakers.
- Depending on the state of the disc or recorder or writing software used to write on the disc, there may be cases when the disc cannot be correctly played back. In such cases please refer to the user manual for the tools you are using.
- When using a Macintosh personal computer, the file extension will not be added, so please add the extension ".mp3" to the end of the file name.
- This unit does not support WAVE files.
- This unit does not support m3u playlists.
- The unit does not support "Emphasis". (See "Glossary" on page 17.)



## Note Concerning Bit Rate and Record Time

Please refer to the following general guide concerning the bit rate used when encoding and the overall time of a file recorded on disc.

Before recording on a disc, please carefully read the software instructions and ensure you use it correctly.

### Note

*When the sampling frequency used for encoding is 44.1kHz*

For highest sound quality	320kbps	About 4hr
CD quality (High sound quality)	192 kbps	About 7hr
CD quality (Medium sound quality)	160 kbps	About 8hr
CD quality (Standard)	128 kbps	About 10hr

## When Creating Discs

Files will not always be played back in the order in which they were recorded. When you want to ensure that files will be played back in the order they were recorded, please write onto the disc paying attention to the points below.

- Use writing software that can write MP3/WMA files on the disc in the order of the file (track) names. Please check with the software developers concerning the behavior and operation of the writing software.
- Prefix numbers to the names of folders (albums) and files (tracks) to arrange them in order. Shown below is a good example (2 or three digits correctly entered.) and a bad example (if the number of digits is not the same for all names, the names will not be ordered correctly.)

### Example

<good>

```
01XXXX.mp3
02XXXX.mp3
03XXXX.mp3
04XXXX.mp3
```

<bad>

```
1XXXX.mp3
10XXXX.mp3
11XXXX.mp3
2XXXX.mp3
```

## About Recommended CD-R and CD-RW Media

With some CD-R and CD-RW media, data may not be properly written depending on their manufacturing quality. In this case, data may not also be reproduced correctly. We recommend the media manufactured by the following companies:

### CD-R Media

TDK USA Corp., Taiyo Yuden (U.S.A.), Inc., Ricoh Corporation, Eastman Kodak Company, Maxell Corporation of America, Mitsubishi Chemical Corporation, Fuji Photo Film U.S.A., Inc., Mitsui Chemicals, Inc., Sony Corporation of America, Philips Electronics North America Corporation, Imation Corp.

### CD-RW Media

TDK USA Corp., Ricoh Corporation, Mitsubishi Chemical Corporation

Several types of CD-R and CD-RW media are available, such as 2X and 1X-4X. Please read the instruction manuals of the drive and the recording software you are using to select the right media.

## Glossary

### Bit rate

The bit rate expresses the amount of information transferred per second as a number of bits. The greater the quantity of information, the higher the bit rate.

The unit is "bits/second". "kbps" indicates "kilo (1,000) bits/second".

### Emphasis

The software used for recording has an "emphasis" capability, which when turned on writes emphasis attributes on to the audio track. When the emphasis bit is set the sound has a smooth characteristic. However, at the current time almost all CD players lack support for this function. It is no problem to play back an audio track recorded with emphasis on with a player not supporting emphasis.

### Extension

In Windows and DOS personal computers, several characters are placed at the end of each file name to indicate the type of file.

The extension consists of a period followed by three alphanumeric characters. The extension differs depending on file type. The extension for MP3 files is ".mp3".

### ID3 Tags

This is a data format that allows a file name, title and artist name etc. to be added to MP3 files.

This unit supports SONG ALBUM and ARTIST for Versions 1.0/1.1/2.2 and 2.3.

ID3 Tags are not supported for WMA files.

### Multi-Session

When data is written on a CD-R disc, the data written from the time writing starts until the time writing finishes is regarded as a bundle called a session. The Track at Once Method allows data to be added to a single disc one track at a time, with each recording of a track being a single session.

The term multisession refers to the method of recording the data for two or more sessions on a single disc. We recommend that this unit be used for up to 10 sessions.

### Structure of Folder Hierarchy

To keep data within a computer organized, related files may be put into a folder, but in addition to files, a folder may also have other folders put into it. Folder B may be put into folder A, and folder C may be put into folder B so as to create a "hierarchical structure". The number of hierarchical levels that can be recognized differs depending on the computer operating system. ISO9660 specifies up to 8 levels.

### VBR (Variable Bit Rate)

MP3 files are normally encoded with a fixed bit rate (eg 128kbps etc.), however VBR encoding during which the bit rate is varied while encoding is also possible. That is to say, during periods of violent variation of sound the bit rate is increased and during soundless periods the bit rate is decreased. Encoding in this way allows file size to be curbed while maintaining high sound quality. However, some players do not support VBR, so caution is required when using VBR.

### Types of CD

- **Audio CD(CD-DA)**

This is the format used for audio CDs that can be played on ordinary audio CD players. It is also called CD-DA (Compact Disc Digital Audio).

- **ISO9660 Format CD-ROM**

ISO9660 is a CD-ROM standard file system determined by ISO (International Organization for Standardization). CD-ROMs with this format can be played by Windows and Macintosh operating systems and also by UNIX operating systems.

- **HFS Format CD-ROM**

This is a CD-ROM conforming to the HFS (Hierarchical File System) used by Macintosh Mac OS.

- **Hybrid CD-ROM**

This is a CD-ROM containing a mixture of ISO9660 format files and HFS format files.

- **Mixed Mode CD**

This is a CD-ROM containing both data files and audio files on the one disc.

Mixed Mode CD is a standard developed for personal computer use so the audio files on the CD cannot be played with CD players that do not support Mixed Mode CD.

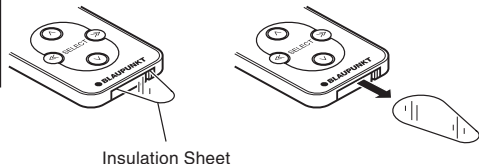
- **CD Extra (Enhanced CD)**

This differs from Mixed Mode CD in that the audio files are followed on the disc by data files. CD Extra was standardized by Sony and Philips to allow the audio files to be played with an audio CD player and the data files to be read by a personal computer.

# Handling the RC-823 Remote Control Unit

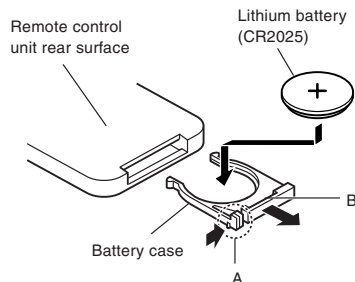
## Removing the battery insulation sheet

If an insulation sheet is attached to the remote control unit, make sure to remove the insulation sheet before use. In this case, the batteries will already be inside and can be used immediately.



## Inserting Batteries

1. Push A in the direction of the arrow while holding B and pull out.
2. Confirm that the (+) (-) terminals are correctly aligned and insert the lithium battery (CR2025).
3. Push in the battery case until a "click" can be heard.



## Operation

Operate while facing towards the sensor of the main unit.

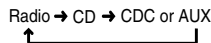
	Radio mode	CD mode	MP3/WMA mode	CDC mode	Aux
	Seek tuning Preset scan**	Scan play	Scan play Folder scan**	Scan play Disc scan**	—
	Volume up/down				
	Seek tuning	—	Folder up	Disc up	—
	—	—	Folder down	Disc down	—
	Preset select	Track search	Track search	Track search	—
	Band select Travel store**	Cue/Review*	Cue/Review*	Cue/Review*	—

\* Press and hold

\*\* Press and hold for 2 seconds

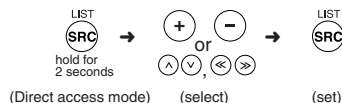
## Switching the Source

The mode will switch each time the SRC button is pressed.



## Direct Access

For direct access during radio mode or CDC mode, use the following operations.



## Precautions on battery use

Always use lithium batteries (CR2025).

## Warning

Use the lithium batteries properly

- (1) Never recharge, short circuit, disassemble, modify, heat or place in fire. This may result in fire, generation of heat or explosion.
- (2) Place batteries out of reach of infants. If accidentally swallowed, consult a physician immediately.
- (3) Use tape to insulate whenever disposing or storing batteries. Contact with metals or other batteries may result in fire or explosion.

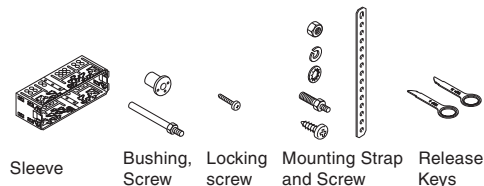
## Caution

Properly align the battery (+) (-) terminals

- Improper handling of batteries may cause fluid leakage or explosions and may result in damage to the device or injury. Align the battery (+) (-) terminals correctly.
- Do not leave the remote control unit in high temperature such as from direct sunlight. It results in the deformation of the case, leakage of battery acid, and so on.
- Do not expose remote to water, damage may result.

# Installations

## Supplied Mounting Hardware



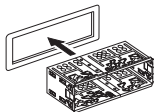
## Precautions

- Be sure to detach the front panel before you start installing the unit.
- Choose the mounting location carefully so that the unit will not interfere with the normal driving operations of the driver.
- Use only the supplied mounting hardware for a safe and secure installation.
- When mounting the unit in a car, keep the unit as level as possible. If the unit must be mounted at an angle, due to the design of the vehicle, make sure that the unit does not tilt upward by more than 30°.
- Turn-off Demo mode before use.

## Mounting Example

Installation in the dashboard.

1. Install the sleeve in the dashboard.

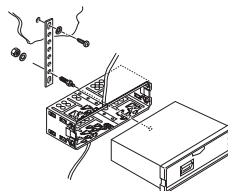


2. Select and bend the appropriate tabs to hold the sleeve firmly in place.



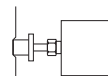
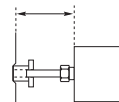
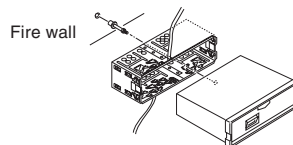
## Mounting Strap Use

3. Attaching the Mounting Strap to the underside of the dash board, using screw.  
Attach the back of the unit to the Mounting Strap using the support stem bolt and hardware.



## Bushing Use

3. As shown in the figure below, securely fasten the screw, which has been inserted into the bushing to the rear of the set.



The distance to the fire wall varies due to the type of the car. Be sure to secure the unit by properly inserting the bushing.

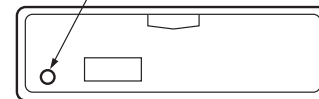
### Caution

Insufficient fastening of the screw may cause some CD's to skip.

## If your car has no accessory position on the ignition key switch (POWER SELECT switch)

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the ② position, then press the RESET button. The illumination is reset to stay off while the unit is not being played.

Reset button  
Press the reset button with the point of a sharp object such as a ball-point pen.



### POWER SELECT SWITCH (Located on the bottom of the unit)

Change the position with a jeweler's screwdriver, etc.

- ① : Your car has an accessory position on the ignition switch.
- ② : Your car has no accessory position on the ignition switch.

Be sure to press the reset button after changing the switch and connecting the lines.

### Note

If set to the ② position, demonstration mode will be eliminated.

# Connections

## Warning

- To prevent short circuit, remove the key from the ignition and disconnect the battery's (-) terminal.
- This unit is designed for negative ground 12 V DC operation only. You can not use it for 24 V or other types of car batteries.

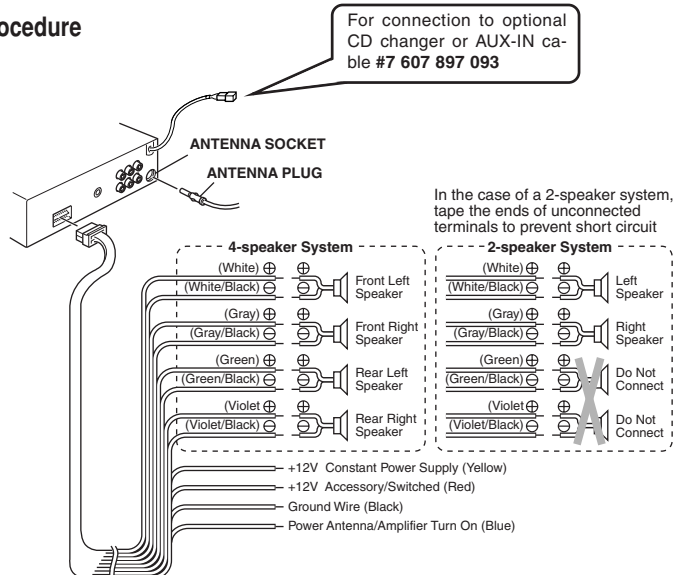
## Connection procedure

## Caution

- DO NOT connect any speaker wires to the metal body or chassis of the vehicle.
- DO NOT connect the speaker common (-) wires to each other.
- Connect each speaker wire directly to each speaker terminal.
- All speaker common (-) wires must remain floating. ie. No common connections or connection to vehicle grd.
- Connect each pair of speaker leads only to a single speaker (or speaker system) that has an impedance of least 4 ohms, as well as 50-watt power-handling capability.
- Do not connect speaker leads to any inputs on external amplifiers. This will cause damage to the internal amplifier of this unit.

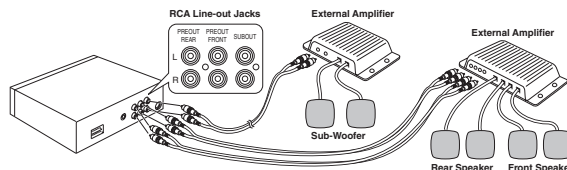
- 1 Make sure the car's ignition key has been removed.
- 2 Disconnect the negative (-) terminal of the car's battery.
- 3 Connect the wiring harness wires in the following order : Ground wire (Black), +12V Constant Power Supply (Yellow), +12V Accessory/Switched (Red) and Power Antenna/Amplifier Turn On (Blue), and tape each so they do not come in contact with each other.
- 4 Connect the speaker wires of the wiring harness.
- 5 Connect the car's antenna terminal to the antenna socket of the unit.
- 6 Connect the detachable wire harness to the unit.
- 7 Reconnect the negative (-) terminal of the car's battery.
- 8 Start the car's engine.
- 9 Make sure the unit operates properly.
- 10 Defeat Demo mode. (See page 7.)

## Connection procedure



## Preamp Out/Line Out Connections

- Since this unit has Line Level Outputs, you can use an amplifier to upgrade your vehicle stereo system.



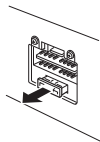
## RCA Line-out Jacks

- Connect a patch cable (not supplied) from the White and Red RCA line output jacks of the unit to the line input terminals of the external amplifier.

## Maintenance

### Replacing the Fuse

If the fuse is blown, check the power connection first and then replace the fuse. If the fuse blows again under normal conditions, the unit may be defective.



Back of the unit

#### Warning

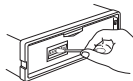
*Use only a fuse with the specified amperage (10 A).*

*Use of another type of fuse can result in a fire or unit damage.*

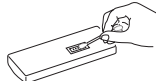
### Cleaning the Connectors

If the connectors of the unit and the front panel are contaminated, malfunctions may occur.

Detach the front panel and clean the connectors with an alcohol dampened cotton swab as shown below.



Main unit



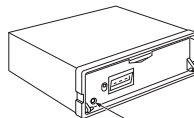
Back of the front panel

### Returning to the Initial Settings

When the reset button is pressed, the microcomputer of the unit returns to the initial settings. If the display window is not properly shown or the unit malfunctions, press the reset button with the point of a sharp object such as a ball-point pen.

#### Note

- Remember to defeat Demo mode. (See page 7.)

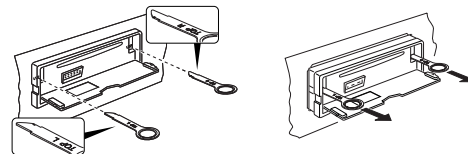


Reset button

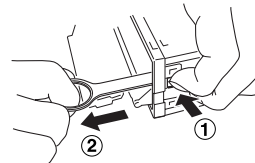
### Removing the Unit

Use the supplied release keys when you need to remove the unit from the car.

Insert the "TOP R" and "TOP L" of the release keys on the right and left position until it clicks respectively, to remove the unit.



As shown in the figure below, push the plate spring firmly to remove the release keys.



#### Notes

- Handle the release keys carefully to avoid injuring your fingers.
- Keep the release keys in a safe place for future use.

# Troubleshooting Guide

The following check will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, refer back to the connection and operating procedures.

## General

Trouble	Cause/Solution
<ul style="list-style-type: none"> <li>Memorized stations and correct time are erased.</li> <li>The fuse has blown.</li> <li>Radio works when the ignition key is the ON, ACC and OFF positions.</li> </ul>	Leads are not matched correctly with the car's accessory power connector. Check wiring for short circuits.
<ul style="list-style-type: none"> <li>No power is being supplied to the unit.</li> </ul>	
<ul style="list-style-type: none"> <li>The power is continuously supplied to the unit.</li> </ul>	The car doesn't have an ACC position.

## Radio reception

Trouble	Cause/Solution
Preset stations are not receivable.	The broadcast signal is too weak.
Seek tuning is not possible.	The broadcast signal is too weak. → Use manual tuning.
Travel Store feature does not complete storing of six stations.	Not enough broadcast frequencies are receivable.

Also make sure that antenna is connected, extended and dry inside.

If the above mentioned solutions do not help to improve the situation, consult your nearest **Blaupunkt** dealer or in the United States call 1-800-266-2528 for technical assistance, parts and service. Call 1-800-950-2528 for dealer referral or to request product brochure.

## MP3 File Play Troubleshooting

Trouble	Cause/Solution
MP3 Files cannot be played.	<ul style="list-style-type: none"> <li>Write MP3 files with the extension ".mp3" to disc.</li> <li>Ensure that files other than MP3 files do not have the extension ".mp3".</li> <li>Use discs conforming to ISO9660 level 1/2.</li> <li>Confirm that the disc is not scratched or dirty, and that it is not upside down.</li> </ul>
Folder Name/File Name is not correctly displayed.	<ul style="list-style-type: none"> <li>Use a disc conforming to ISO9660 level 1/2.</li> <li>The name contains characters that could not be handled by the software used to write the files. Refer to the instruction manual for the software and use only characters that can be handled by the software.</li> </ul>
ID3-Tag is not displayed.	<ul style="list-style-type: none"> <li>Record conforming with ID3-Tag v1.0/1.1/2.2 or 2.3.</li> </ul>
Time elapses before an MP3 file is played.	<ul style="list-style-type: none"> <li>As this unit initially checks all files on the disc, some time may be required before it can start playing a file if the disc contains many files or folders or many folder levels.</li> </ul>
MP3 files are not played in order.	<ul style="list-style-type: none"> <li>The files were not written by the write software in the desired playback order. Prefix digits such as "00"... "99" to the file names. For details refer to the instruction manual for the write software.</li> </ul>

## CD Player Troubleshooting

When problems occur with CD playback, an error message appears in the display window.

Refer to the table below to identify the problem, then take the suggested corrective action. If the "SLED ERROR" appears, return unit to your nearest **Blaupunkt** dealer.

Message	Possible cause	Recommended action
LD/EJ ERROR	Loading/eject error.	Press the EJECT button and then reinsert the disc.
SERVO ERROR	Mechanical error.	Eject and then reinsert the disc.
TOC ERROR	The disc is dirty, reversed or not recorded etc.	Check the disc and replace with a proper disc.
FILE ERROR	File read failure.	Reinsert the disc. The disc does not contain music files or the file extensions are missing. Add the extension ".mp3" or ".wma".
COMM ERROR	Communication error.	Reinsert the disc.

- When the disc can not be inserted, press the EJECT button (See page 2.) and try inserting the disc again. Alternatively, press the Reset button (See page 21.) and try inserting the disc again.
- If the disc does not eject after the EJECT button is pressed, press the Reset button and then press the EJECT button again.
- CD-R/RW: Quality of the blanks can & do effect the general operation of the CD player.
- After market CD-R/RW labels: The quality of these labels vary greatly, and can result in difficulties ejecting a disc using such labels.

## Specifications

### CD Changer Troubleshooting

When problems should develop while operating CD changer, an error message appears in the display window. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists or "MECHA ERR" or "09 ERROR" appears, contact your nearest **Blaupunkt** dealer.

Message	Possible cause	Recommended action
NO MAGAZINE	A magazine is not inserted.	Insert a magazine.
NO DISC	A disc is not inserted.	Insert a disc.
CD ERROR	The disc is reversed.	Check and reinsert the disc correctly.
COMM ERROR	Communication error.	Check connections to the changer.
TEMP ERR	Excessive temperature conditions at the CD changer.	The error sign will go off and play will resume when the temperature to a normal range.

### GENERAL

Dimensions	: Approx. 178 mm × 50 mm × 155 mm (W × H × D)
Power requirements	: 12 volts DC car battery (negative ground)
Output Power	: 50 watts × 4 channels
Output Wiring	: Floating-ground type designed for 4 speaker use. RCA low-level outputs (4 channels).
Output Impedance	: Compatible with 4-8 ohm speakers.
Low - Level Output	: 4 V including Sub Out.
Remote Control	: RC-823 Credit Card Remote

### TUNER

Tuning Range	: AM : 530 - 1,710 kHz (10 kHz step) FM : 87.5 - 107.9 MHz (200 kHz step)
Sensitivity	: AM : 20 $\mu$ V FM : 9.1 dBf mono sensitivity
FM	
Stereo Separation	: 40 dB

### CD PLAYER

Frequency Response	: 20 - 20,000 Hz
S/N Ratio	: 98 dB
Wow & Flutter	: Below the measurable limit

### MP3 PLAYER

MP3 decoding	: MPEG 1 Audio Layer 3
FORMAT	: ISO9660
Capability (Disk)	: 700MB





**Supplement****ENGLISH****About Recommended CD-R and CD-RW Media**

With some CD-R and CD-RW media, data may not be properly written depending on their manufacturing quality. In this case, data may not also be reproduced correctly. We recommend the media manufactured by the following companies:

**CD-R Media**

TDK USA Corp., Taiyo Yuden (U.S.A.), Inc., Ricoh Corporation, Eastman Kodak Company, Maxell Corporation of America, Mitsubishi Chemical Corporation, Fuji Photo Film U.S.A., Inc., Mitsui Chemicals, Inc., Sony Corporation of America, Philips Electronics North America Corporation, Imation Corp.

**CD-RW Media**

TDK USA Corp., Ricoh Corporation, Mitsubishi Chemical Corporation

Several types of CD-R and CD-RW media are available, such as 2X and 1X-4X. Please read the instruction manuals of the drive and the recording software you are using to select the right media.

**Complément****FRANÇAIS****A propos des CD-R et CD-RW recommandés**

Avec certains CD-R et CD-RW, les données peuvent ne pas être écrites correctement en raison de la qualité de fabrication. Dans ce cas, les données ne seront pas non plus reproduites correctement. Nous recommandons l'utilisation de supports des sociétés suivantes :

**CD-R**

TDK USA Corp., Taiyo Yuden (U.S.A.), Inc., Ricoh Corporation, Eastman Kodak Company, Maxell Corporation of America, Mitsubishi Chemical Corporation, Fuji Photo Film U.S.A., Inc., Mitsui Chemicals, Inc., Sony Corporation of America, Philips Electronics North America Corporation, Imation Corp.

**CD-RW**

TDK USA Corp., Ricoh Corporation, Mitsubishi Chemical Corporation

Il existe plusieurs types de CD-R et de CD-RW, par exemple les types 2X et 1X-4X. Pour sélectionner le support, veuillez lire le mode d'emploi du lecteur et du logiciel d'enregistrement que vous utilisez.

**Suplemento****ESPAÑOL****Notas sobre los discos CD-R y CD-RW recomendados**

Es posible que con ciertos discos CD-R y CD-RW, los datos no se escriban correctamente dependiendo de su calidad de fabricación. En estos casos los datos no se reproducen correctamente. Recomendamos los discos fabricados por las empresas siguientes:

**Discos CD-R**

TDK USA Corp., Taiyo Yuden (U.S.A.), Inc., Ricoh Corporation, Eastman Kodak Company, Maxell Corporation of America, Mitsubishi Chemical Corporation, Fuji Photo Film U.S.A., Inc., Mitsui Chemicals, Inc., Sony Corporation of America, Philips Electronics North America Corporation, Imation Corp.

**Discos CD-RW**

TDK USA Corp., Ricoh Corporation, Mitsubishi Chemical Corporation

Hay disponibles varios tipos de discos CD-R y CD-RW, como por ejemplo de 2X y 1X-4X. Lea los manuales de instrucciones de la unidad de grabación y del software de grabación que esté utilizando para seleccionar el tipo de discos correcto.

**Suplemento****PORTUGUÊS****Acerca das Médias em CD-R e CD-RW Recomendadas**

Com algumas médias em CD-R e CD-RW, dados podem não ser adequadamente gravados, conforme a sua qualidade de fabricação. Em tais casos, os dados podem também não se reproduzirem correctamente. Nós recomendamos as médias fabricadas pelas seguintes empresas:

**Média em CD-R**

TDK USA Corp., Taiyo Yuden (E.U.A.), Inc., Ricoh Corporation, Eastman Kodak Company, Maxell Corporation of America, Mitsubishi Chemical Corporation, Fuji Photo Film U.S.A., Inc., Mitsui Chemicals, Inc., Sony Corporation of America, Philips Electronics North America Corporation, Imation Corp.

**Média em CD-RW**

TDK USA Corp., Ricoh Corporation, Mitsubishi Chemical Corporation

Vários tipos de média em CD-R e CD-RW estão disponíveis, tais como 2X e 1X-4X. Leia os manuais de instruções do drive e do software de gravação que estiver a utilizar para seleccionar a média correcta.

# Limited Warranty (United States)

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Robert Bosch Corporation warrants new Blaupunkt car audio products it distributes in the United States through authorized Blaupunkt dealers, or which are imported as original vehicle equipment by the automobile manufacturer, to be free from defects in material and workmanship, in accordance with the following:

For twelve (12) months after delivery to you, the original consumer purchaser, we will repair or at our option replace at no charge to you any car audio product which, under normal conditions of use and service, proves to be defective in materials or workmanship. However, this warranty does not cover expenses incurred in the removal or reinstallation of any car audio product, whether or not proven defective, and does not cover products not purchased from an authorized Blaupunkt dealer. This warranty is limited to the original consumer purchaser and is not transferable. Repaired and replacement car audio products shall assume the identity of the original for purpose of this warranty and this warranty shall not be extended with respect to such products.

To obtain performance of this warranty, contact the nearest Blaupunkt authorized repair facility or our nearest office. A dated purchase receipt or other proof that the product is within the warranty period will be required in order to honor your claim. Carefully pack the unit and ship prepaid to the servicing location. For further information, write to the Robert Bosch Corporation, 2800 South 25th Avenue, Broadview, Illinois, 60155, attention Blaupunkt Customer Service Department or call 1-800-266-2528.

Specifically excluded from this warranty are failures caused by misuse, neglect, abuse, improper operation or installation, dropping or damaging a radio faceplate, unauthorized service or parts, or failure to follow maintenance instructions or perform normal maintenance activities. Normal maintenance activities for car audio products include but are not limited to cleaning, such as cleaning radio faceplate connectors and tape heads, tape player head demagnetization and tape player lubrication, compact disc and lens cleaning, and other minor maintenance activities and adjustments that are outlined in the owner's manual or that are normally required for continued proper operation. Also excluded from this warranty is the correction of improper installation and the elimination of any external electromagnetic interference.

This warranty sets forth your exclusive remedies with respect to the products covered by it. We shall not be liable for any incidental, consequential, special or punitive damages arising from the sale or use of any Blaupunkt car audio products, whether such claim is in contract or tort. No attempt to alter, modify, or amend this warranty shall be effective unless authorized in writing by an officer of Robert Bosch Corporation.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY IMPLIED BY LAW, WHETHER FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE AND SHALL BE EFFECTIVE ONLY FOR THE PERIOD THAT THIS EXPRESS WARRANTY IS EFFECTIVE.

In the event any provision, or any part or portion of this warranty shall be held invalid, void or otherwise unenforceable, such holding shall not affect the remaining part or portions of that provision or any other provision hereof.

## NOTICE TO CALIFORNIA OWNERS

If your Blaupunkt car audio product needs warranty repair service and there is no authorized service center reasonably close to you, you can return the defective unit to the dealer from whom you purchased it, or you can return it to any dealer who sells Blaupunkt car audio products. The dealer may, at the dealer's option, replace, repair or refund the purchase price for any Blaupunkt car audio products which prove defective under conditions of normal use. If the dealer fails to repair, replace, or partially refund your money, you may take your Blaupunkt car audio product to any repair shop and they can repair your unit at our expense unless the repair cost exceeds the depreciated value of the unit, but you must contact Blaupunkt to receive authorization to do this before your car audio product is repaired.

ROBERT BOSCH CORPORATION  
BLAUPUNKT CUSTOMER SERVICE  
2800 SOUTH 25TH AVENUE  
BROADVIEW, IL 60155  
TEL: 1-800-266-2528



Bosch Group

Warranty No. \_\_\_\_\_

## BLAUPUNKT LIMITED WARRANTY (CANADA)

SUBJECT TO THE LIMITATIONS AND CONDITIONS SET OUT BELOW, Robert Bosch Inc. ("Robert Bosch") warrants the replacement of Blaupunkt car radio accessories, and the repair or replacement of Blaupunkt car radios or car radio parts, which, under normal conditions of use or service, are found to be defective in materials and/or workmanship within twelve (12) months from the date of installation by an authorized Blaupunkt dealer of Robert Bosch.

FOR GREATER CERTAINTY, THIS BLAUPUNKT LIMITED WARRANTY IS SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS:

- For purposes of this warranty, a Blaupunkt car radio accessory is a product which enhances, or is dependent upon, the operation of a Blaupunkt car radio but does not form an integral part thereof and may be purchased independently of the car radio unit.
- With the exception of labour costs incurred in connection with the removal or installation of car radios and accessories and related activities, defective accessories will be replaced, and car radios or car radio parts will be repaired or replaced by a like item by an authorized Blaupunkt warranty service depot or authorized Blaupunkt dealer, free of labour costs related to such replacement or repair.
- This warranty does not apply to car radios and car radio parts and accessories supplied by Robert Bosch to manufacturers for installation in their products as original equipment. Such manufacturers may, in some cases, provide warranty coverage for a period different than that provided herein.
- This warranty is limited to Blaupunkt car radios and car radio parts and accessories installed in a motor vehicle by an authorized Blaupunkt warranty service depot or authorized Blaupunkt dealer and to Blaupunkt car radios and accessories in a motor vehicle, the installation of which has been approved by an authorized Blaupunkt warranty service depot or authorized Blaupunkt dealer.
- Specifically excluded from this warranty are car radios and car radio parts and accessories which have been rendered defective by misuse, negligence, modification or abuse, by improper installation, application, operation or removal, by unauthorized service or the use of unauthorized parts. Also excluded from this warranty are parts which are subject to replacement due to normal wear and tear, normal maintenance to the tape portion of car radios such as cleaning, head demagnetization, lubrication and other minor adjustments and service required to eliminate any electro-magnetic interference.
- A claim under this warranty can only be made by the original customer within twelve (12) months of the date of installation of the car radio accessory, as the case may be, and is contingent upon the presentation of the attached warranty certificate countersigned by an authorized Blaupunkt dealer of Robert Bosch within ten (10) days of the said installation date.
- This warranty is not transferable by the original consumer to subsequent owners, nor does it apply to car radio replacement parts.
- To the extent allowed by the law of the jurisdiction in which the Blaupunkt car radio or car radio accessories are purchased, this warranty sets out the only remedies available to the original consumer with respect to the car radio or car radio parts or accessories owned by him. This warranty constitutes the entire agreement between Robert Bosch and the original consumer. The only representations, oral or written, concerning the Blaupunkt car radios or car radio parts or accessories which are binding on Robert Bosch are the written representations contained in this warranty. Neither Robert Bosch nor its affiliated companies shall be liable for incidental or consequential damages which may result from defective car radios or car radio parts or accessories or from the defective installation thereof, whether or not due to the negligence of Robert Bosch. This warranty applies only to Blaupunkt car radios and car radio parts and accessories and does not cover any other motor vehicle parts.
- THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND CONDITIONS, ANY WARRANTY OR CONDITION IMPLIED BY LAW, WHETHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, IS LIMITED TO THE PERIOD THAT THIS EXPRESS WARRANTY IS EFFECTIVE and no attempt to alter, modify or amend this warranty shall be effective unless authorized in writing by an officer of Robert Bosch.
- Some jurisdictions do not allow the imposition of limitation periods on a warranty's duration, nor do they condone the exclusion of incidental or consequential damages. You may therefore have other rights which vary between jurisdictions and you may have additional legal rights against persons other than Robert Bosch.
- Robert Bosch reserves the right to examine car radios and car radio parts and accessories alleged to be defective in materials and/or workmanship to determine the nature and cause of such defect and its decision in this regard shall be final. Robert Bosch also reserves the right to decide between repair and replacement.
- To obtain the benefits of warranty coverage contact the nearest authorized Blaupunkt warranty service depot or authorized Blaupunkt dealer, information as to the location of the nearest authorized Blaupunkt warranty service depot or authorized Blaupunkt dealer may be obtained by contacting (905) 890-1033.

EFFECTIVE the 1st day of January, 1997

Warranty No. \_\_\_\_\_

## WARRANTY CERTIFICATE

INSTALLATION OR INSTALLATION APPROVAL DATE

\_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_

COUNTERSIGNED BY AUTHORIZED DEALER OF THE BLAUPUNKT CAR RADIO DIVISION OF ROBERT BOSCH INC.

this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_



Bosch Group

Garantie N° \_\_\_\_\_

## GARANTIE LIMITÉE DE BLAUPUNKT (CANADA)

SOUS RÉSERVE DES LIMITES ET CONDITIONS CI APRÈS, Robert Bosch Inc. ("Robert Bosch") garantit le remplacement des accessoires de radios d'autos Blaupunkt et la réparation ou le remplacement des radios d'autos ou des pièces de radios d'autos Blaupunkt qui, en conditions normales d'utilisation ou de service, deviennent défectueux quant à leur matériel et/ou à leur fabrication dans les douze (12) mois de la date d'installation par un marchand Blaupunkt autorisé de Robert Bosch.

POUR PLUS DE CERTITUDE, LA PRÉSENTE GARANTIE LIMITÉE DE BLAUPUNKT EST SOUMISE AUX LIMITES ET CONDITIONS SUIVANTES :

- Aux fins de la présente garantie, un accessoire de radio d'auto Blaupunkt est un produit qui rehausse le fonctionnement d'une radio d'auto Blaupunkt ou qui en dépend, mais qui n'en fait pas partie intégrante et que l'on peut acheter indépendamment de celle-ci.
- À l'exception des frais de main-d'œuvre se rapportant à la dépose ou à la pose des radios d'autos et de leurs accessoires et aux activités connexes, les accessoires défectueux seront remplacés et les radios d'autos ou leurs accessoires seront réparés ou remplacés par un article semblable par un dépôt de service Blaupunkt autorisé ou un marchand Blaupunkt autorisé, sans frais de main-d'œuvre pour ledit remplacement ou ladite réparation.
- La présente garantie ne s'applique pas aux radios d'autos, aux pièces et accessoires de radios d'autos fournis par Robert Bosch aux constructeurs pour installation dans leurs produits comme équipements d'origine. Lesdits fabricants peuvent, dans certains cas, fournir une garantie pour une période différente de celle que prévoient les présentes.
- La présente garantie est limitée aux radios d'autos, aux pièces et accessoires de radios d'autos Blaupunkt installés dans un véhicule automobile par un dépôt de service Blaupunkt autorisé ou un marchand de radios d'autos et d'accessoires Blaupunkt autorisé, dont ladite installation a été approuvée par un dépôt de service Blaupunkt autorisé ou un marchand Blaupunkt autorisé.
- Sont spécifiquement exclus de la présente garantie les radios d'autos et les pièces et accessoires de radios d'autos rendus défectueux par mauvais usage, négligence, modification ou abus, par une installation, une utilisation, un fonctionnement ou une dépose incorrect, par un entretien non autorisé ou l'usage de pièces non autorisées. Sont également exclues de la présente garantie les pièces à remplacer par suite d'usure normale, pour l'entretien normal à la partie magnétophone des radios d'autos comme le nettoyage, la démagnétisation des têtes, la lubrification ou les autres réglages et services mineurs pour éliminer l'interférence électromagnétique.
- Toute réclamation aux termes de la présente garantie ne peut être faite que par l'acheteur original dans les douze (12) mois de la date de la pose de la radio d'auto ou de ses accessoires, selon le cas, et doit être accompagnée du certificat de garantie contresigné par un marchand Blaupunkt autorisé de Robert Bosch dans les dix (10) jours de ladite date d'installation.
- La présente garantie n'est pas cessible par l'acheteur original aux propriétaires subséquents et elle ne s'applique pas aux pièces de rechange de radios d'autos.
- Dans la limite où le permet la loi de la juridiction où la radio d'auto ou les accessoires de radios d'autos Blaupunkt sont achetés, la présente garantie énumère les seuls recours offerts à l'acheteur original en rapport avec la radio d'auto ou les pièces ou accessoires de radios d'autos achetés par lui. La présente garantie constitue l'entente totale entre Robert Bosch et l'acheteur original. Les seules représentations, verbales ou écrites, concernant les radios d'autos ou les pièces ou accessoires de radios d'autos Blaupunkt qui engagent Robert Bosch sont celles que contiennent les présentes. Ni Robert Bosch ni ses compagnies affiliées ne sont responsables des dommages incidents et indirects qui peuvent subvenir à la suite de la défectuosité des radios d'autos ou de leurs pièces ou accessoires ou de la défectuosité de leur pose, quelle soit ou non due à la négligence de Robert Bosch. La présente garantie s'applique seulement aux radios d'autos et aux pièces et accessoires de radios d'autos Blaupunkt et ne couvre aucune autre pièce de véhicules automobiles.
- LA PRÉSENTE GARANTIE TIEN LIEU DE TOUTES AUTRES GARANTIES ET CONDITIONS EXPLICITES. TOUTE GARANTIE OU CONDITION DÉCOULANT DE LOI, QUANT À LA QUALITÉ MARCHANDE OU À LA CONVENANCE À UNE FIN PARTICULIÈRE OU TOUTE AUTRE GARANTIE OU CONDITION, SE LIMITE À LA PÉRIODE À LAQUELLE S'ÉTEND LA PRÉSENTE GARANTIE EXPLICITE et aucune altération, modification ou changement à la présente garantie n'est valable sans l'autorisation écrite d'un responsable de Robert Bosch.
- Certaines juridictions ne permettent pas de limiter la durée des garanties ni d'exclure les dommages incidents ou indirects. Vous pouvez donc, selon la juridiction où vous habitez, avoir des droits supplémentaires et posséder des recours juridiques contre des personnes autres que Robert Bosch.
- Robert Bosch se réserve le droit d'examiner les radios d'autos et les pièces et accessoires de radios d'autos que l'on dit défectueuses quant à leur matériel et/ou à leur fabrication et sa décision à ce sujet est sans appel. Robert Bosch se réserve aussi le droit de décider entre la réparation et le remplacement.
- Pour obtenir exécution des obligations de la garantie, communiquer avec le dépôt de service ou le marchand Blaupunkt autorisé le plus près. On peut en obtenir le nom et l'adresse en téléphonant à (514) 687-6311.

EN VIGUEUR le 1e jour janvier, 1997

Garantie N° \_\_\_\_\_

## CERTIFICAT DE GARANTIE

DATE DE LA POSE OU DE L'APPROBATION DE LA POSE:

le \_\_\_\_\_ e jour d \_\_\_\_\_ 20\_\_\_\_

CONTRESIGNÉ PAR LE MARCHAND AUTORISÉ DE LA DIVISION DES RADIOS D'AUTOS BLAUPUNKT DE ROBERT BOSCH INC.

ce \_\_\_\_\_ e jour d \_\_\_\_\_ 20\_\_\_\_



**Bosch Group**

**Please send other correspondence to:**

Robert Bosch Corporation Sales Group  
Blaupunkt - Mobile Communications Division  
2800 S. 25th Ave.  
Broadview, IL 60155



Please Place First Class Stamp Here
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**Bosch Group**

BENEFITS REGISTRATION DEPARTMENT  
PO BOX 1265  
DENVER CO 80201-1265



1. Mr. ☐ 2. Mrs. ☐ 3. Ms. ☐ 4. Miss ☐ 174A

Warranty Number:

D19Y0 701546

First Name:

Initial:

Last Name:

Address: (Number and Street)

Apt. #:

City:

State:

Zip:

Phone #:

Date of Purchase:

Month Day Year

Store Name:

Where did you make your purchase?

1. ☐ Car audio store 3. ☐ Superstore 5. ☐ Catalogue/mail order  
2. ☐ Automobile dealer 4. ☐ Department store 6. ☐ Other

Check the two (2) most important reasons you chose Blaupunkt over the competition:

1. ☐ Friend/Family recommendation 6. ☐ Styling/Appearance 11. ☐ Blaupunkt Reputation  
2. ☐ Salesperson recommendation 7. ☐ Tuner quality/features 12. ☐ Detachable Face  
3. ☐ Tape player quality/features 8. ☐ Blaupunkt warranty 13. ☐ Magazine review  
4. ☐ CD player quality/features 9. ☐ Convenient installation 14. ☐ Value for price  
5. ☐ Ease of use/location of controls 10. ☐ Sound quality 15. ☐ Other (Describe in comments)

In what vehicle will this Blaupunkt product be installed?

Make:

Model:

Year:

example: Ford

example: Mustang

example: 1965

How did you first learn about Blaupunkt?

1. ☐ Friend/relative 5. ☐ Radio ad  
2. ☐ Salesperson 6. ☐ Newspaper ad  
3. ☐ Magazine article 7. ☐ Magazine ad  
4. ☐ In-store display 8. ☐ Not sure

Including yourself, what is the total number of people living in your household?

(EXAMPLES: 01, 02, 03, 04.....)

When did you make your decision on which model to buy?

1. ☐ Before coming to the store  
2. ☐ At the store

NOT including yourself, what are the AGES of other people living in your household?

Age (in years)

What brand was your second choice?

1. ☐ Alpine 6. ☐ JVC 11. ☐ Sony  
2. ☐ Audiovox 7. ☐ Kenwood 12. ☐ Other  
3. ☐ Clarion 8. ☐ Panasonic 13. ☐ None  
4. ☐ Eclipse 9. ☐ Pioneer  
5. ☐ Jensen 10. ☐ Rockford-Fosgate

Male:

Female:

Who installed this product?

1. ☐ Store where the product was purchased  
2. ☐ I did it myself 4. ☐ Independent installer  
3. ☐ Friend or relative 5. ☐ Other

Marital Status: 1. ☐ Married 2. ☐ Single

Which of these products do you plan to buy in the future? (check all that apply)

1. ☐ None 4. ☐ Amplifier 6. ☐ Equalizer  
2. ☐ Front speakers 5. ☐ Subwoofer 7. ☐ CD changer  
3. ☐ Rear speakers

Which best describes your family income?

1. ☐ Under \$15,000 5. ☐ \$50,000-\$74,999  
2. ☐ \$15,000-\$24,999 6. ☐ \$75,000-\$99,999  
3. ☐ \$25,000-\$34,999 7. ☐ \$100,000-149,999  
4. ☐ \$35,000-\$49,999 8. ☐ Over \$150,000

Which best describes your family income?

1. ☐ Purchased clothes through the mail?  
2. ☐ Purchased gifts through the mail?  
3. ☐ Worked in your garden?  
4. ☐ Traveled on vacation?  
5. ☐ Purchased a PC or PC software?  
6. ☐ Purchased two or more books?  
7. ☐ Purchased cassettes/CDs?  
8. ☐ Donated to wildlife/environmental causes?  
9. ☐ Donated to charities

Date of Your birth:

Month Day Year

Education (Please check which category applies):

1. ☐ High School 3. ☐ Completed College  
2. ☐ Some College 4. ☐ Graduate School

Comments:

**IMPORTANT!**

## **Thank You For Buying a ● *BLAUPUNKT* Radio!**

*To provide you with these important benefits, you must complete this card and mail within 10 days of purchase.*

- ✓ **Insurance Referral**
- ✓ **Warranty Confirmation**
- ✓ **Ownership Registration**

*Your responses will also help us refine and enhance our products and marketing programs. We greatly appreciate and value your input, and are pleased to provide you with the above benefits.*

**Warranty Details** - Refer to your radio's warranty. **Service Information** - Please contact us at:

Robert Bosch Corporation Sales Group  
Blaupunkt - Mobile Communications Division  
2800 S. 25th Ave.  
Broadview, IL 60155

1-800-266-2528

28851801

PLEASE DETACH HERE AND KEEP FOR YOUR RECORDS.

# BENEFITS REGISTRATION

*By completing and returning the attached Benefits Registration Card, you will receive these important benefits:*

- ***Insurance Referral*** - We will keep the model number, warranty (serial) number, and date of purchase of your new Blaupunkt radio on file to help you refer to this information in the event of an insurance claim, such as if the car is stolen.
- ***Warranty Confirmation*** - Your prompt registration confirms your rights to the protection available under the terms and conditions of your Blaupunkt warranty.
- ***Ownership Registration*** - Returning this card is your only way to guarantee that you will be notified by Blaupunkt of any issues that arise concerning this product.



Bosch Group